

BAIER, Kazimierz, mgr ins.

Signaling of the end of the SKP train. Przegł kolaj elektrotech
14 no.12:362-366 D '62.

BAIER, Kazimierz, mgr inż.

Axle counter as device for automatic end of train signaling. Przegł
kolej elektrotech 15 no.1:6-11 Ja '63.

BAIER, Kazimierz, inż,

Axle counters as devices for automatic signaling the end of the train. Przegl kolej elektrotech 15 no.4:109-112 Ap '63.

BAIER, Kazimierz, mgr inż.

Selective 50 Hz ammeter for measurements of signaling current
in isolated sectors of automatic coded blocking. Przegl
kolej elektrotech 15 no. 6:173-175 Je '63.

BAIER, Kazimierz

Automatic train braking devices. Przegl kolej mechan 11
[i.e. 16] no.3:68-74 Mr '64.

1. Central Institute for Research and Development of
Railway Techniques, Warsaw.

BAIER, M., ing.; ANCA, A., ing.; POTOCEAN, P., ing.; VARRO, A., ing.

Saving reserves of material resources. Probleme econ 16 nc.12:
144-147 D '63.

1. Directia tehnica, Ministerul Transporturilor si Telecomunicatii (for Baier).
2. Secretar general, Ministerul Economiei Forestiere (for Anca).
3. Tehnolog sef, Uzina de constructii metalice si masini agricole, Bocsa (for Potoccean).
4. Director tehnic, Uzina de constructii metalice si masini agricole, Bocsa (for Varro).

BATIER, Zdenek

Some thermodynamic problems of steam-gas cycles with steam turbines of great output. Inst masz przep PAN no.14/16: 269-285 '63.

1. Ustav pro Vyskum Stroju C.S.A.V., Praha.

BAIERLE, Andreas

Flooring in the shops metal galvanization and staining.
Mashinostroene 11 no.6:29-32 Je '62.

BAIEROVA, M.; MUDr.; SUNTYCHOVA, M., MUDr.

Spontaneous fractures in an infant in empyema. Cesk. pediat.
11 no.5:259-262 May 56.

1. Venovano k 25. vyroci cinnosti nemocnice na Bulovce v Praze 8
Z detskeho oddeleni OUNZ Praha 8, Bulovka, prednosta prof. MUDr.
B. Epstein a z klinicke zakladny rtg katedry UDL na Bulovce,
prednosta prim. MUDr. J. Slanina.

(EMPYEMA, PLEURAL, in infant and child,
newborn, spontaneous fract. of humerus & femur in (Cz))
(INFANT, NEWBORN, diseases,
empyema, pleural, with spontaneous fract. of humerus &
femur (Cz))

(FRACTURES,
humerus & femur in newborn in pleural empyema (Cz))
(HUMERUS, fractures,
in newborn, spontaneous in pleural empyema (Cz))
(FEMUR, fractures,
same)

BAIEROVA, M.; DOBIAS, J.; DANECKOVA, I.

Embryonic mixed tumor of the liver in an 8 and half months old infant.
Neoplasma, Bratisl. 7 no.1:110-116 '60.

1. Abteilung für Kinder und Säuglinge und Pathologisch-Anatomische
Abteilung des Bubyka Krankenhauses, Prag, CSR.
(LIVER NEOPLASMS in inf. & child)

RUMANIA / Farm Animals. Cattle. Q

Abs Jour : Ref Zhur * Biologiya, No 2, 1959, No. 7371

Author : ~~Baies, A.~~; Mazilu, V.
Inst : Timisoara Institute of Agronomy
Title : The Influence of Temperature on the Udder as
a Factor Raising the Percentage of Fat in
the Milk of Cows

Orig Pub : Anuarul lucrar. stiint. Inst. agron. Timi-
soara, Bucuresti, 1957, 229-237

Abstract : In order to raise the milk's fat content in
cows, warm compresses were employed in one
group, in another hot applications. Eighteen
cows took part in the experiments, divided
into 3 groups. At the first stage the prepa-
ration of the udder for milking consisted in
its being washed with water of the same temp-

Card 1/2

RUMANIA / Farm Animals. Cattle. Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7371

erature as the cowshed. At the second phase, warm compresses were placed on the udder of the cows of the first group, hot applications were used for the cows of the second group, and the udder of the cows of the third group was washed in the usual manner. When compresses were used, the milk's fat content increased by 0.18 percent, when hot applications were used it increased by 0.29 percent. --
K. M. Lyutikov

Card 2/2

54

Country : RUMANIA
Category : Farm Animals. The Honeybee. 2
Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96950
Author : Sirby, A.; Bales, A.
Institut. : Institute of Agronomy, Timisoara and Bucharest
Title : A Biological Method Combating Sacculated Brooding.
Orig Pub. : Anuarul lucrar. stiint. Inst. agron. Timisoara Bucuresti, 1957, 273-279
Abstract : The queen of a diseased colony was isolated in a cell; 12 days later severely infected honeycombs are removed and individual areas are cut out from the slightly infected honeycombs. Each week one frame with bees and sealed-in brood is placed into the nest. After 38 days the queen is set free and egg-laying begins, the colony is given additional feedings consisting of 75 g of water, 25 g of sugar and 20,000 international units of penicillin. As
Card: 1/2

76

Country : RUMANIA
Category : Diseases of Farm Animals. R
 : Diseases Caused by Bacteria and Fungi.
Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96985
Author : Baies, I.; Popovici, A.; Mircescu, Gh.
Institut. :
Title : Epizootological and Therapeutical Observations
 : at the Focus of Trichophytosis of Calves.
Orig Pub. : Probl. zootehn. si veterin., 1958, No 2, 45-48
Abstract : No abstract.

Card: 1/1

12

BAIES, A.; CONTIU, I.; PETRICA, L.; DANCEA, L.; DIACONESCU, I.

Some observations on a nidus of mycotoxicosis in horses, caused by
Fusarium sporotrichioides in the Banat region. Studii agr Timisoara
8 no.1/2:73-88 '61.

(Fungi in agriculture) (Horses)
(Fusarium)

BATES, Angela

Psittacosis-ornithosis infections in fowls. Stud. cercet.
inframicrobiol. Bucur. 12 no.1:157-166 '61.

1. Raport prezentat la Conferinta regionala de ornitoza, Timisoara
(BIRDS diseases) (ORNITHOSIS veterinary)

RUMANIA

BATES, I., Prof, Dr., BATES, Angela, Dr, CONTIU, I., Dr, POP, M., Dr, MARCIA, D., Dr, ONET, E., Dr, and RUSU, T., Dr, Faculty of Veterinary Medicine (Facultatea de Medicina Veterinara), Cluj

"Epizootological, Clinical and Therapeutic Prophylactic Studies on Sheep and Fig Listeriosis"

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 16, No 3, Mar 66, pp 50-59

Abstract: [Authors' English summary modified] A study of several outbreaks of sheep listeriosis and one of swine listeriosis failed to locate common precipitating factors. Bacteriologic tests of Oestrum ovis larvae collected from 40 sheep in active listeriosis outbreaks and 11 sheep with clinically confirmed cases were all negative. No abortions before or during the outbreaks were observed in sheep, but they did occur in sows. All treatments tried were ineffective for diseased sheep; mass treatment of the healthy animals in a focus with a single large dose of penicillin, moldamin, streptomycin or terramycin, however, immediately stopped the outbreak. Includes one table, 5 figures and 15 references, of which 5 are Rumanian, 8 Russian and 2 French.

1/1

- 109 -

RUMANIA

BAIES, I., Dr, Prof, CONTIU, I., Dr, MICLEA, E., Dr, ONET, E., Dr, POP, M., Dr, and MOLDOVAN, A., Dr, of the Faculty of Veterinary Medicine (Facultatea de Medicina Veterinara) Cluj.

"Epizootiologic and Anatomic-Clinical Studies on Outbreaks of Aujeszky and Atypical Hog-Cholera Diseases."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 16, No 8, Aug 66, pp 42-48.

Abstract [Authors' English summary modified]: A study of two outbreaks of Aujeszky's disease in young and suckling pigs. The atypical nature of the symptoms is described; the anatomic-pathologic changes were characterized by inconsistent hemorrhagic diathasis. Economic losses as a result of a failure to reach a correct diagnosis promptly are pointed out, on the basis of one of the two described outbreaks in which hog cholera was also found.

Includes 6 figures and 5 references, of which 3 Rumanian and 2 French.

1/1

HUNGARY

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol XII,
No 4, 1965/66, pages 357-361.

with human hepatitis virus. It was concluded that no such differences could be found between the livers of ethionine treated and infected rats and rats treated with ethionine but not exposed to infection which would justify the assumption that the hepatitis virus is responsible for any specific change in the livers. 4 Hungarian, 5 Western references. [Manuscript received 22 Aug 65.]

2/2

IONESCU-MUSCEL, I., prof. ing.; REBEDEA, C., ing.; COTIGARU, B., ing.;
RUICEA, Maria, ing.; STOIAN, Elena, ing.; NISTOR, K.; BALETCHIU, P.

Mixed cotton and flax duck for protection clothing. Ind text
Rum 12 no.8:313-318 Ag'61.

BAIEV, P. (Troian); KIROV, G. (Ruse); SAVOV, T. (Burgas); KHADZHIVANOV, N.

Solutions to mathematical problems form Vol. 5, no. 4, 1962.
Mat i fiz Bulg 6 no. 1. 47-51 Ja-F'63.

L 29472-66

ACC NR: AP6019977

SOURCE CODE: CZ/0079/65/007/003/0262/0263

AUTHOR: Baigarova, L.; Gollova, E.; Lat, J.

ORG: Institute of Physiology, CSAV, Prague; Psychiatric Research Institute, Prague

TITLE: Differences in the adaptation rate of rectal temperature to amphetamine in animals with a high and low central nervous excitability level [This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 20-23 January 1965.]

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 262-263

TOPIC TAGS: rat, pharmacology

ABSTRACT: Adaptation to repeated high doses of amphetamine was studied in two groups of rats. The groups differed in their exploratory activity. The group with the higher activity showed a higher temperature increase after the first dose. The process of adaptation to amphetamine was also quicker in the more active group. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUEM DATE: none

Card 1/1 FV

BAIK, S.I.

Conditions for the extraction of nicotine from aqueous solutions
by organic solvents under various pH. Farmatsev. zhur. 19 no.6:
44-48 '64. (MIRA 18:4)

1. Kafedra sudebnoy i analiticheskoy khimii L'vovskogo meditsinskogo
instituta (zaveduyushchiy kafedroy - doktor farmatsevticheskikh nauk.
V.P.Kramarenko).

BAIKO, V.P.

22553 Baiko, V.P. Kormovaya Baza Dlya Produktivnogo Zhivotnovodstva.

Sov. Agronomiya, 1949, No. 7, S. 22-29.

SO: Letopis No. 30, 1949

DANILEVICIUS, Eduardas, vet. doktor; BAIKSTYS, A., red.

[Echinococcosis and other diseases carried by dogs]
Echinokokoze ir kitos sunu platinamos ligos. Vilnius,
Laikrasciu ir zurnalu leidykla, 1963. 34 p. [In
Lithuanian] (MIRA 17:7)

MONSTVILAITE, J.; BAIKSTYS, A., red.

[Use of herbicides for grain and pulse crops] Naudokime herbicidus grudiniu ir grudiniu-ankstiniu kulturu pase-
liuose. Vilnius, Laikrasciu ir zurnalu leidykla, 1965.
4 p. [In Lithuanian] (MIRA 18:7)

BAIKUSHEV, Bozhidar; KUTIEV, Tasho

Influence of the prices of new varieties on the commodity
circulation at retail. Trud tseni 5 no. 8:67-78 '63.

BAIKUSHEV, Bozhidar

Computing the realtions between the prices in agricultural
and industrial production. Trud tseni 6 no.9:61-75 '64.

BAILECKI, Mieczyslaw; NIJAKOWSKI, Feliks

The influence of physical effort on the behavior of tissue
and blood thiamine. Acta physiol. Pol. 15 no.2:229-235
Mr-Ap '64.

1. Zakladu Patologii Ogolnej i Doswiadczalnej Akademii Medycznej
w Poznaniu (Kierownik: prof. dr A. Horst) i z Zakladu Teorii i
Metodyki Sportow Roznych Wyzszej Szkoły Wychowania Fizycznego
w Poznaniu (Kierownik: dr F. Nijakowski).

BAILIEV, Georgi, inzh.

Using steel forms in dam construction. Khidrotek i melior 6
no.6:187-188 '61.

BALLIEV, G., inzh.; PETKOV, P., tekh.

Irrigation with the plastic pipeline IPT-200. Khidrotekh i
melior 6 no.7:220-221.

BAILIEV, Georgi, inzh.

Computing and dimensioning of the console-type of dam steel casings. Khidrotekh i melior 8 no.3:86-88 '63.

PENCHEV, Pencho St., inzh.; BAILIEVM Georgi T., inzh.

Mortars of pumice and Portland cement for studies on models.
Stroitelstvo II no.5:16-19 N-D '64.

BAILMLER, M.

TECHNOLOGY

periodicals: NUTNICKE LISTY Vol. 13, no. 9, Sept. 1958

BAILMLER, M. The most suitable conditions for the use of Cs 137
radioactive cesium for radiation of welds and castings p. 853

Monthly List of East European Accessions (EEA1) LC Vol. 8, No. 5
May 1959, Unclass.

BALLOV, D.

"Mechanizing the sowing of small seeds by granulation" (p. 11)

KOOPERATIVNO ZEMEDELIE

(Ministerstvo na zemedelicta) Sofiya Vol 8 No 12 1953

SO: East European Accessions List Vol 2 No 7 Aug 1954

D. BAILCV

"Evaluation and recommendation on the Bulgarian tobacco culture by our Soviet guest, Smirnov. p. 7. (KOOPERATIVNO ZEMEDELIE, Vol. 7, no. 6, Oct. 1952, Sofiya, Bulgaria.)

SO: Monthly List of East European Accessions, Vol. 2, No. 7, July 1953, Uncl.

BULGARIA / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25010

Author : Baylov, D.; Stefanova, M.; Andreycheva, M.
Inst : Bulgaria Academy of Sciences
Title : Concerning the Nature and Causes of the
Tobacco Mosaic Disease

Orig Pub : Dokl. Bolg. AN, 1957, 10, No 6, 509-512

Abstract : The connection between the infected leaf's
spottiness and chlorogenetic acid was
successfully established by determining,
according to Heffner's method, the quantity
of the acid in the very spottiness, and also
in the uninfected part of the same leaf and
in the altogether uninfected leaves of the
same sort and brand. The quantity of

Card 1/3

140

BULGARIA / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25010

carbohydrates and pure protein were determined also in these very same experiments. It was established that if the spottiness is of a yellow color, then the quantity of chlorogenetic acid is greater in the determined part than in the uninfected part of the same leaf and in the completely uninfected leaves. If the spottiness is of a brown color, then the quantity of chlorogenetic acid in it does not differ from its quantity in the uninfected leaves. Regardless of the color of the spottiness, the infected leaves contain more protein and less carbohydrates. The green and brown spottiness is conditioned by different degrees of the chlorogenetic acid's

Card 2/3

BULGARIA / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25010

oxidation. This is proven by the tints,
obtained by the author in vitro, which
completely resemble the tints of the tobacco
leaves, infected naturally with the mosaic
disease. -- P. N. Kizima

Card 3/3

141

30(1)

SOV/25-59-9-13/49

AUTHOR: Baylov, Dimitr, Professor

TITLE: Bulgarian Tobacco

PERIODICAL: Nauka i zhizn', 1959, Nr 9, pp 35 - 36 (USSR)

ABSTRACT: The author reports on the development of the tobacco industry in Bulgaria. In the post war period, the experimental station was changed into a scientific research institute. Three experimental stations, two faculties at higher educational institutions, two schools and some experimental bases for tobacco-growing have been established. The average 1959 output of tobacco is supposed to be 130,000 tons compared to 43,000 in the 1939-44 period. During the past years, Bulgarian scientists, including the author of this article, developed new highly-productive strains of tobacco.

Card 1/2

Bulgarian Tobacco

SOV/25-59-9-13/49

The yield of these strains surpasses the former by 25%. Two machines have been designed for stringing the tobacco leaves which will increase the working efficiency by 2.5 times. There is 1 drawing and 2 photographs.

Card 2/2

BALLOV, D.; ISTATKOV, S.; EDREVA, A.; SECENSKA, M. [Sechenska, M.]

Studies on some biochemical and physiological processes in the leaves
of the tobacco plants affected by *Peronospora tabacina* Adam.

Doklady BAN 15 no.4:427-430 '62.

1. Vorgelegt von Akademiemitglied A. Popov. Chlen Redaktsionnoy
kollegii i zam. otvetstvennogo redaktora, "Doklady Bolgarskoy
akademii nauk."

BAYLOV, D. [Bailov, D.]; PALAKARCHEVA, M.

On the problem of overcoming the nonhybridizability between
the species *Nicotiana tabacum* L. and *Nicotiana debneyi* D.
Doklady BAN 15 no.5:571-574 '62.

1. Predstavleno akad. Kh. Daskalovym.

BAILOV, D., prof.

A document of extremely high importance. Selskostop nauka 1 no.4/5:
537-538 '62.

RAILOV, D.; ISTATKOV, S.; EDREVA, A.; SECHENSKA, M. [Sechenska, M.]

Blue-~~bird~~ resistance biochemical indicators of the Nicotiana
debneyi D. species. Doklady BAN 16 no.1:101-104 '63.

1. Submitted by Corresponding Member I. Milkovski.

BAILOV, F.

BAILOV, F. Evaluation of the work in transportation. p.12.

Vol. 11, no. 8, Aug. 1956

KOOPERATIVNO ZEMEDELIE

AGRICULTURE

Sofia, Bulgaria

SO: East European Accession, Vol. 6, No. 3, March 1957

BALOV, Filip

Expression of the value of operating expenses in the production
of individual cooperative farms as reflected in prime cost.
Trud tseni 5 no.5:26-35 '63.

BAILOV, Filip

Methods and techniques of setting up a system of labor wages
in cooperative farms, equal to the same system in state farms.
Selskostop nauka 1 no.6:679-683 '62.

1. Nauchnoizsledovatel'ski institut po ikonomika na selskoto
stopanstvo v Sofiia.

BAILOV, Filip

A theoretical conference on the methods of computing prime
cost of farm produce. Trud tseñi 5 no.4354-60 '63

BAHIOZOV, D.

"For an Improvement of Poultry Breeding on Collective Farms. p. 43" (KOOOPERATIVNO ZEMEDELIE) Vol. 8, No. $\frac{1}{2}$, 1953, Sofiya, Bulgaria.

SO: Monthly List of East Europeans Accessions L.C. Vol. 2, No. 11, Nov. 1953, Uncl.

BAIL'OV, D.; PANAIOTOVA, M.

"Mistakes in the Production of Our Tinned Meat and Fish which Causes
Bulges." p. 18,
(LEKA PROMISHLENOST, Vol. 3, No. 2, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

FOIA b7C, b7D
PANAIOTOVA, M., d-r., st. nauchen sutrudnik; BAIL' OZOV, D., d-r., ml.
nauchen sutrudnik.

Microflora of refrigeration changers; present state, sources, and
control. Izv.mikrob.inst., Sofia 5:309-340 1954.

1. Pri N. I. V. Kh. K. I. - Sofia.
(BACTERIA,
in refrigeration chambers)
(REFRIGERATION,
bacteriol. of refrigeration chanbers)

BAILOZOV, D.

New Meat and Meat Vegetable Cans. Leka Promishlenost (Light Industry),
#10:34:0ct 54

BULGARIA/Chemical Technology. Chemical Products and
Their Uses. Part III. Food Industry. H

Abs Jour : Ref Zhur-Khiniya, No 15, 1958, 51954

Author :
Inst :
Title :

: Panaytova, M., Bayl'ozov, D. Kebedzhiyev, I.
: A Study of Cleanliness of Meat and Fish
Canning Enterprises. Biological Methods
of Meat Evaluation.

Orig Pub : Leka promishlenost, 1956, 5, No 12, 25-31

Abstract : In order to set norms for sanitary stan-
dards in the canneries, microbiological
control of the production and installa-
tions of several Bulgarian plants was effec-
ted. It was recommended to consider as sani-
tary and hygienic such plants in which 1 g

Card : 1/3

BULGARIA/Chemical Technology. Chemical Products and
Their Uses. Part III. Food Industry. H
APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020009-6
Ref Zhur-Khiniya, No 15, 1958, 51954

of canned meat products contained: Spores
≤ 300, microorganisms - 6,000,000, and
bacteria (coli) ≤ 600, and in which 1 g
of meat pies contained: 100 spores, 2,000,
000 microorganisms, and 100 bacteria (coli).
The safe contamination level of 1 g of gela-
tin was set at: 30 spores, 6,000,000 micro-
organisms and 6,000 colis, while that of 1 g
of meat-vegetable canned products correspon-
dingly at: 200, 10,000,000, and 15,000. The
principal sources of contamination were:
meat (raw material) equipment, auxiliary ma-
terials and various operations performed du-
ring the process. In order to apply standards

Card : 2/3

BAVL'OV, D.

USSR/Chemical Technology. Chemical Products and Their Application -- Food Industry,
I-28

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6718

Author: Panayotova, M., Bayl'ozov, D.

Institution: None

Title: Residual Microflora on Sterilization of Meat and Fish Canned Goods

Original
Publication: Mikrobiologiya, 1956, 25, No 2, 211-216

Abstract: 1,293 cans of meat and fish food products were investigated to determine the adequacy of the currently utilized conditions of sterilization of canned foods. In 1.93% of these a residual microflora was detected which consisted of anaerobia and facultative, anaerobic, sporogenic microorganisms of the group Cl. putrificum, Cl. sporogenes, Bact. subtilis and of non-sporogenic organisms which were mostly micrococci. In canned meat products a residual microflora is encountered 3 times more often than in canned fish, and in the former predominate putrescent sporogenic anaerobia, while in the latter --

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Food industry,
I-28

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6718

Abstract: coccic forms. Spores of the isolated strains are characterized by high thermal stability and withstand heating, for 5-35 minutes, at 120-125°. The isolated non-sporogenic forms, on testing in broth, did not withstand heating for 30 minutes at 100°.

Card 2/2

BAYL'OZOV, D.; PANAYOTOVA, M; VESELINOV, V.

Methods for detecting staphylococcal enterotoxin. Zhur.mikrobiol.,
epid.i immun. 33 no.8:101-104 Ag '62. (MIRA 15:10)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo veterinarno-
gigiyenicheskogo instituta produktov zivotnovodstva, Bolgariya.
(STAPHYLOCOCCUS) (TOXINS AND ANTITOXINS)

IVANOVSKIY, G.F.; GERSHTEYN, I.A.; SAPUNOV, G.S.; BAIMBETOV, A.M.

Continuous-action unit for the production of a demulsifier.
Nefteper. i neftekhim. no.5:5-6 '64. (MIRA 17:8)

1. Novo-Ufimskiy neftepererabatyvayushchiy zavod.

41162

S/044/62/000/009/060/069
A060/A000

16.6800

AUTHORS: Baimbetov, K.K., Filatov, A.N.

TITLE: On a high-speed problem without switching for linear systems

PERIODICAL: Referativny zhurnal, Matematika, no. 9, 1962, 44, abstract 9V234
("Tr. Mekhan.-matem. fak. Kazakhsk. un-t", 1960, v. 1, no. 2, 287
- 294)TEXT: In the first part of the paper the following problem is posed for a
linear, controlled system of the form

$$\dot{x}^i = \sum_{j=1}^n a_{ij} x^j + b_i u(t), \quad i = 1, 2, \dots, n, \quad (1)$$

where a_{ij} , b_i are constants, and $u(t)$ is a piecewise-continuous function constrained by the condition $|u(t)| \leq M$. To find the conditions which have to be imposed upon the system (1) so that the representative point of that system can travel from any preimposed point $x_0 = (x_0^1, \dots, x_0^n)$ of the phase-space to the manifold $a_1 x^1 + \dots + a_n x^n + a_{n+1} = 0$, where a_1 are ar-

Card 1/3

S/044/62/000/009/060/069
A060/A000

On a high-speed problem without switching for

bitrary constants, in a minimum time without switching of the control action $u(t)$ from one limiting value to another. The case $n = 2$ and the case of n arbitrary are considered in turn. In the latter case the following theorem is proved, which gives sufficient conditions for the solution of the problem posed. If the matrix of the system (1) has the form:

$$A = \begin{pmatrix} a_{11} & 0 & 0 & 0 & \dots & 0 \\ a_{21} & a_{22} & 0 & 0 & \dots & 0 \\ a_{31} & a_{32} & a_{33} & 0 & \dots & 0 \\ \vdots & \vdots & \vdots & \vdots & \dots & \vdots \\ \vdots & \vdots & \vdots & \vdots & \dots & \vdots \\ a_{n1} & a_{n2} & a_{n3} & \dots & \dots & a_{nn} \end{pmatrix},$$

where a_{ij} are distinct real numbers, then the travel from an arbitrary point of an n -dimensional phase-space to the manifold $x^i = 0$ is always possible in a minimum time without switching (provided, of course, there is an admissible direction leading the phase point to the required manifold). If the manifold is given by the equation

$$\sum_{i=1}^n a_i x^i + a_{n+1} = 0,$$

Card 2/3

On a high-speed problem without switching for

S/044/62/000/009/060/069
A060/A000

then the problem reduces to the preceding one by a linear transformation of the variables. The second part of the paper is devoted to the problem, unrelated to the former one, of applying the general principles of mechanics to the setting up of the equations of motion of unholonomic systems. If upon a mechanical system of n material points, whose position is defined by the coordinates x_1, x_2, \dots, x_{3n} one imposes one constraint of the form

$$f(t, x_1, x_1^1, \dots, x_1^{(\sigma)}) = 0; \quad i = 1, 2, \dots, 3n,$$

which may be integrated once, then the equations of motion will be the same regardless of whether one uses the given constraint or the constraint obtained after integrating it in setting up these equations.

A.G. Butkovskiy

[Abstracter's note: Complete translation]

Card 3/3

ACCESSION NUMBER: APPROVED

S. 012678 (PARTIAL) X117 2000

SOURCE: REF ID: MERIDIAN, Apr. 1941

AUTHORS: FAIRBANKS, S. E.

TITLE: On the way to a rigid group of atoms and centres for a field

THEORY OF THE RIGIDITY OF ATOMS AND CENTRES FOR A FIELD
OF ATOMS AND CENTRES FOR A FIELD

THEORY OF THE RIGIDITY OF ATOMS AND CENTRES FOR A FIELD
OF ATOMS AND CENTRES FOR A FIELD

~~Myshkin.~~

BAIMBETOV, K.K.

Quick operation problem solved without switching of control
functions. Trudy Sekt. mat. i mekh. AN Kazakh. SSR 2:67-70 '63.
(MIRA 16:10)

ORAZYMBETOV, Nurgazy Orazymbetovich, inzh.; MAKHONIN, Vladimir Vasil'yevich, inzh.; MUKMANOV, Nasyr Iukmanovich, inzh.; TAKEZHANOV, F.Kh., inzh., red.; IL'YASHENKO, L.V., red.; BAIMBETOV, M., red.; TURABAYEV, B., tekhn.red.

[Handbook on local building materials and their use] Spravochnik po mestnym stroitel'nym materialam i ikh primenenie. Pod red. F.Kh. Takezhanova. Alma-Ata, Kazahskoe gos.izd-vo, 1959. 510 p.
(MIRA 13:4)

(Building materials)

PHASE I BOOK EXPLOITATION SOV/5179

Alma-Ata, Kazakhstan. Universitet.

Issledovaniya professorov perennosa. Voprosy teorii otnositel'nosti (Study of Trans-
fer Processes. Problems in the Theory of Relativity) Alma-Ata, 1959. 236 p.
Errata ally inserted. 1,000 copies printed. (Series: Iss Study)

Sponsoring Agency: Ministerstvo vysshego obrazovaniya SSSR and Kazakhskiy
spetsial'tsvetnyy universitet Ia. S.M. Kirova.

Editorial Board: V.F. Kashkarov, I.D. Kosov, and N.M. Petrova; Resp. Ed.:
L.A. Vullis; Tech. Ed.: L.D. Kashkarov.

NOTE: This collection of articles is intended for research physicists and engi-
neers. It can also be used by instructors and students at universities.

CONTENTS: The articles of this collection contain the results of 19 studies in
transfer problems and the general theory of relativity made from 1956 to 1958
by the staff of the Kazakh obshchey fiziki i teoreticheskoy fiziki Kazakhskogo
universiteta Ia. S.M. Kirova (Department of General Physics and Theoretical
Physics of the S.M. Kirov Kazakh State University). The articles are arranged
in two groups. Group one contains 16 articles concerning the research activity
of the teoreticheskaya laboratoriya yri kafedre obshchey fiziki (Heat Physics
Laboratory of the Department of General Physics) in the investigation of trans-
port processes of matter, impulse and energy; group two contains three articles
reporting on studies of the Department of Theoretical Physics on problems of the
theory of relativity. Article one of the collection is an introduction and re-
views on problems of transport processes and gives a fairly detailed bibliog-
raphy of contributions of members of Physics Department of Kazakh State Uni-
versity. 50 personalites are mentioned. References accompany each article.

TABLE OF CONTENTS:

Kilner, V.G., and V.Y. Remshin. Simulation of Light Produced by Coma Radiation From a Cylindrical Source	89
Dubovik, I.I., and V.G. Klinger. Light Exchange Between Mirror and Diffuse Surfaces	97
Kozlov, M.D. Application of the Normal Thermal Regime Method in the Determination of the Coefficient of Diffusion of Liquids	101
Yzhenbayeva, V.P., and M.D. Kozlov. Temperature Dependence of the Coefficient of Diffusion of Gases	114
Kozlov, M.D. Relation Between Coefficients of Inter-mol Self-Diffusion Benzilina, A.Z., and V.P. Kashkarov. Fen-liko. Laminar Twisted Stream of Gas Under Compression	126
Kashkarov, V.F. Motion of a Viscous Liquid Inside a C/ae With a Porous Side Surface	137
Kashkarov, V.F. An Accurate Solution of the Equation of Energy	153
Lut'yubov, A.F. Contribution to the Investigation of the Thermal Regime of a Heterogeneous Process	162
Yzhenbayeva, I.N., and G.I. Kashkarov. Turbulent Mixing in Volume Kazakhskiy, M.B., and V.A. Peteluyko. The Malingren-Semlerkin Method in its Application to the Flame Surface Problem	167
	177
	185
II. PROBLEMS OF THE THEORY OF RELATIVITY	
Kashkarov, M.M. Laws of Conservation for a System of Rotating Bodies in the General Theory of Relativity	192
Aytilbayeva, Z.A., and M.M. Petrova. The System of Spherically Symmetrical Bodies in the General Theory of Relativity	209
Kuznetsov, I. Tensors of a Moment of Momentum (Kinetic Moment) and of a Moment of Force in Relativistic Mechanics	229

Card 5/5

JA/osa/osp
7-59-61

CHERVYAKOVA, V.V.; BAIMBETOV, N.; PRESNYAKOV, A.A.

Effect of lead concentration on the plasticity of LS50-1 brass at high
temperatures. Trudy Inst. met. i obog. AN Kazakh. SSR 10:12-15 '64.
(MIRA 18:7)

PRESNYAKOV, A.A.; CHERVYAKOVA, V.V.; POLYAKOVA, T.P.; NOVIKOV, A.V.; VOLEYNIK,
S.N.; BAIMBETOV, N.B.

Investigating the properties of plain and lead β -brass. Trudy Inst.
met. i obog. AN Kazakh. SSR 10:25-31 '64. (MIRA 18:7)

BAIMLER, M.

Album of radiographs to control manual welds. p. 493.
ZVARACSKY SBORNIK, Bratislava, Vol. 3, no. 3/4, 1954. (Svaracsky sbornik)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

Baimler, M.

Baimler, M. Methods for nondestructive testing of materials of coarse structure, present stage of their development, and application in Czechoslovakia.

Tr. from the Czech. p. 185. Vol. 16, no. 2/4, 1955, Budapest, Hungary

KOZLEMENYEI (Bulletin of the Hung. Acad. Sci. (sect. of Tech. Sci.))

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 3,
March, 1956

BALMER, M.

The Present State of Non-Destructive Testing
X-Ray Radiography and Gamma Ray
Defect Detection
Original Source: X-Ray and Gamma
Ray Radiography and Gamma Ray
Defect Detection

BAIMLER, M.

"Use of radioactive isotopes in defectoscopy" by S.V.Rumiancev.
Reviewed by M.Baimler. JADERNA energie 8 no.7:260 JI '62.

BAIMLER, Miroslav, inz.

"Handbook of damage-free material testing" by E.A. Muller.
Pt.3. Reviewed by Miroslav Baimler. Stroj vyr 12 no.4:
316-317 Ap'64.

BAIMOV, N.I., inzh.; PAL'MOV, Ye.V., prof., doktor tekhn.nauk

Selecting efficient pressure mechanism parameters for blooming
mills. Izv.vys.ucheb.zav.; chern.met. no.10:147-158 0 '58,
(MIRA 11:12)

1. Ural'skiy politekhnicheskiy institut.
(Rolling mills) (Power (Mechanics))

BAIMOV, N. I. Cand Tech Sci -- (diss) "Study of kinematics and dynamics of the pressure mechanisms of bloomings." Sverdlovsk, 1959. 18 pp (Min of Higher and Secondary Specialized Education RSFSR. Ural Polytechnic Inst im S. M. Kirov. Chair of Mechanized Equipment of Metallurgical Plants), 150 copies (KL, 50-59, 126)

BAIMOV, N.I., inzh.

Selection of an efficient velocity graph for mechanism with repeated, short duration operating conditions. Izv.vys.ucheb.zav.; chern.met. 2 no.5:107-119 My '59. (MIRA 12:9)

1. Ural'skiy politekhnicheskiy institut. Rekomendovano kafedroy mekhanicheskogo oborudovaniya metallurgicheskikh zavodov Ural'skogo politekhnicheskogo instituta.
(Metalworking machinery)

BAIMOV, N.I., inzh.

Investigating electric drives for mechanisms of repeated short-duration operations. Izv.vys.ucheb.zav.; chern.met. 2 no.6:99-107 Je '59. (MIRA 13:1)

1. Ural'skiy politekhnicheskiy institut. Rekomendovano kafedroy mekhanicheskogo oborudovaniya metallurgicheskikh zavodov Ural'skogo politekhnicheskogo instituta.
(Metalworking machinery--Electric driving)

BAIMOV, N. I.

Determining the moment of gyration of the screwdown gear on rolling mills. Izv. vys. ucheb. zav.; chern. met. no.8:195-198 '60.
(MIRA 13:9)

1. Ural'skiy politekhnicheskiy institut.
(Rolling mills)

PAL'MOV, Ye.V., prof., doktor tekhn.nauk; KALININ, A.I., inzh.;
KORSHUNOV, Ye.A., assistant; BAIMOV, N.I., assistant;
PETROV, I.N., assistant

Experimental investigation of the No. 1 shears of the No.3 blooming
mill at the Magnitogorsk Metallurgical Combine. Trudy Ural.politekh.
inst. no.101:21-32 '60. (MIRA 14:3)
(Rolling mills) (Shears (Machine tools))

BAIMOV, N.I.

Experimental investigation of the performance of screw-down gear
on blooming mills. Izv. vys. ucheb. zav.; chern. met. 4 no.8:170-177
'61. (MIRA 14:9)

1. Ural'skiy politekhnicheskii institut.
(Rolling mills)

PAL'MOV, Ye. V., doktor tekhn. nauk, prof.; BADMOV, N. I., kand. tekhn. nauk, assistant; KORSHUNOV, Ye. A., kand. tekhn. nauk, assistant; PETROV, I. N., kand. tekhn. nauk, assistant; KALININ, A. I., inzh.

Developing and investigating new conditions of cutting with the shears of blooming mill No. 3 at the Magnitogorsk Metallurgical Combine. Trudy Ural'. politekh. inst. no.119:22-27 '62.
(MIRA 16:1)

(Magnitogorsk--Rolling mills)
(Shears(Machine tools))

BAIMOV, N.I.

Selecting an efficient speed curve for rolling on reversing mills. Izv. vys. ucheb. zav.; chern. met. 6 no.2:87-94 '63. (MIRA 16:3)

1. Ural'skiy politekhnicheskiy institut.
(Rolling (Metalwork)--Speed)

PAL'MOV, Ye. V., doktor tekhn. nauk, prof.; BAIMOV, N. I., kand.
tekhn. nauk; KORSUNOV, Ye. A., kand. tekhn. nauk; PETROV,
I. N., kand. tekhn. nauk

Investigating the strength of construction of certain parts
of blooming mill shears. Trudy Ural'. politekh. inst. no.119:
28-34 '62. (MIRA 16:1)

(Rolling mills(Equipment and supplies))
(Shears(Machine tools)—Testing)

RAYMOV, N.I.

Efficient distribution of reductions for each pass during rolling
on reversible mills. Izv. vys. (ucheb. zav.; chern. met. 6 no.4:
76-82 '63. (MIRA 16:5)

1. Ural'skiy politekhnicheskiy institut.
(Rolling (Metalwork))

BAIMOV, N.I.

The optimum number of passes in rolling on reversing mills.

Izv. vys. ucheb. zav.; Chern. met. 6 no.8:175-180 '63.

(MIRA 16:11)

1. Ural'skiy politekhnicheskiy institut.

BAIMOV, N.I.

Efficient correlation between the rates of gripping and
ejection, acceleration and deceleration in rolling on
reversing mills. Izv. vys. ucheb. zav.; Chern. met. 6
no.12:90-98 '63. (MIRA 17:1)

1. Ural'skiy politekhnicheskiy institut.

BAIMOV, N.I.

Efficient use of long standstill periods in rolling on
reversing mills. Izv. vys. ucheb. zav.; Chern. met. 7 no.2:
108-111 '64. (MIRA 17:3)

1. Ural'skiy politekhnicheskiy institut.

BAIMOV, N.I.

New method of calculating the optimal speed conditions of rolling on reversing mills. Izv. vys. ucheb. zav.; chern. met. 7 no.8:93-101 '64. (MIRA 17:9)

1. Ural'skiy politekhnicheskiy institut.

BAIMOV, N.I.

Selecting optimum pauses during rolling on reversing mills. Izv.
vys.ucheb.zav.; chern. met. 8 no.4:128-134 '65.

1. Ural'skiy politekhnicheskiy institut.

(MIRA 18:4)

~~BALBUS, M.~~
SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees: -not given-

Affiliation: Museum of History of the Party (Muzeul de Istorie a Partidului).

Source: Bucharest, Stiinta si Tehnica, No 4, 1961, pp 8-9, 17.

Data: "Through the Halls of the Museum of the History of the Rumanian Workers' Party."

5 (5)

AUTHORS: Soborovskiy, I. Z., Baina, N. F. 504/19-29-4-22/77

TITLE: Difluor Monochlor Methane as a Difluoromethylating Agent
(Diftorkhlormetan kak diftormetiliruyushchiy agent).
I. Reaction of Difluor Monochlor Methane (Freon-22) With
Alcoholates and Sodium Mercaptides (I. Reaktsiya
diftorkhlormetana s alkogolyatami i merkaptidami natriya)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, No 4, pp 1142-1143
(USSR)

ABSTRACT: The chemical properties of difluor monochlor methane synthesized already in 1931 (Ref 1) have not yet been described in detail. Only its pyrolytic transformation into tetrafluoroethylene (Ref 2) and the formation of fluoroform by its reaction with $AlCl_3$ at low temperature are known. It is generally assumed that the freons, among them also difluor monochlor methane are very inert compounds from the chemical point of view. The authors, however, found that the chlorine atom in the molecule of difluor monochlor methane is comparatively mobile. It could be seen that freon-22 reacts already at room temperature with alcoholates and sodium

Card 1/3

Difluor Monochlor Methane as a Difluoromethylating Agent. I. Reaction of Difluor Monochlor Methane (Freon-22) With Alcoholates and Sodium Mercaptides SOV/79-29-4-22/77

mercaptides in anhydrous alcohol, yielding fluorinated ether and fluorinated sulfides according to the scheme:
 $\text{CHF}_2\text{Cl} + \text{NaOR} \longrightarrow \text{CHF}_2\text{OR} + \text{NaCl}$
 $\text{CHF}_2\text{Cl} + \text{NaSR} \longrightarrow \text{CHF}_2\text{SR} + \text{NaCl}$. These reactions proceed very smoothly already when passing freon-22 through alcoholic solutions of sodium alcoholates. In this way methyl-difluoromethyl- and n.-butyl difluoromethyl ether were obtained. In the reaction of sodium- β -oxy-ethylmercaptide with freon-22 in an alcoholic medium the β -oxyethyl-difluoromethyl sulfide hitherto unknown resulted in good yield according to the scheme $\text{CHF}_2\text{Cl} + \text{NaSCH}_2\text{CH}_2\text{OH} \longrightarrow \text{CHF}_2\text{SCH}_2\text{CH}_2\text{OH} + \text{NaCl}$. Furthermore, the difluoromethyl ether of the acetoxime, so far unknown as well, was synthesized by O. I. Volakova according to reference 4 (last scheme). There are 4 references, 3 of which are Soviet.

Card 2/3

Difluor Monochlor Methane as a Difluoromethylating Agent. I. Reaction of Difluor Monochlor Methane (Freon-22) With Alcoholates and Sodium Mercaptides

SOV/79-29-4-22/77

SUBMITTED: March 6, 1958

Card 3/3

5 (3)

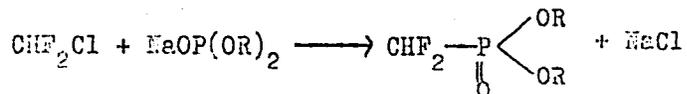
AUTHORS: Soborovskiy, L. Z., Baina, N. F.

SOT/79-29-4-23/77

TITLE: Dichloromethane as Difluoromethylating Agent (Diftorkhlormetan kak diftormetiliruyushchiy agent). II. Reaction of Difluor Monochlor Methane With Sodium-dialkyl-phosphites (II. Reaktsiya diftorkhlormetana s natriy dialkilfosfitami)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1144-1146 (USSR)

ABSTRACT: In the present paper the attempt is made to use difluor monochlor methane in the reaction of Michaelis-Becker with the sodium derivatives of dialkyl-phosphorous acids in order to obtain the corresponding difluoromethyl phosphinates. Difluor monochlor methane was found to react with the sodium derivatives of dialkyl-phosphorous acids in an inert solvent under the formation of difluoromethylphosphinates:



Card 1/3

This reaction proceeds the most readily in the sodium derivatives of the highest dialkyl-phosphorous acids, in

Dichloromethane as Difluoromethylating Agent.

SOV/79-2)-1-23/77

II. Reaction of Difluor Monochlor Methane With Sodium-dialkyl-phosphites

particular in the case of dibutyl phosphite which is known to be easily soluble in liquid hydrocarbons (Ref 1). On the passing of difluor monochlor methane through the benzene solution of sodium dibutyl phosphite the dibutyl-difluoromethyl phosphinate was thus formed (70% yield). In the same way the dimethyl-, diethyl- and diisopropyl-difluoromethyl phosphinate were obtained. The anomaly observed in the reaction of difluor monochlor methane with sodium dimethyl phosphite, where instead of the dimethyl-difluoro methyl phosphinate to be expected dimethyl phosphite and a small amount of the expected ester are separated, is due to the fact that the system sodium-dimethyl phosphite in the methanol solution is equilibrated with sodium dimethyl phosphite and methanol (Scheme 2). The equilibrium is usually shifted to the right and the reaction proceeds according to scheme 3. The reaction of dibutyl difluoromethyl phosphinate with phosphorus pentachloride yielded the hitherto unknown acid dichloride of difluoromethyl phosphinic acid. A cleavage of the P-C-bond was thus found to take place due to the influence exercised by PCl_5 upon difluoromethyl phosphinates

Card 2/3

Dichloromethane as Difluoromethylating Agent.

SOV/79-29-1-23/77

II. Reaction of Difluor Monochlor Methane With Sodium-dialkyl-phosphites

in addition to the formation of the acid dichloride of difluoromethyl phosphinic acid, with the formation of the corresponding alkyl phosphates. There are 5 references, 1 of which is Soviet.

SUBMITTED: March 6, 1958

Card 3/3

BAINDURASHVILI, A. G.

"On the Psychological Nature of Naming." Tbilisi State U imeni I. V. Stalin,
Tbilisi, 1955
(Dissertation for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Latopis', No. 32, 6 Aug 55

BAINDURASHVILI, A.G.

Nature of the Charpentier illusion. Eksp.issl.po psikhol.ust. 2:
57-62 '63. (MIRA 16:12)

*

BAINDURASHVILI, A.G.

Experimental material on the problem of designation. Trudy Inst.
psikhol. AN Gruz. SSR 11:231-254 '57. (MIRA 12:3)
(Semantics) (Words, New)

BAINDURASHVILI, A.G.

Further reference to the mechanism of the rise of illusions of
weight and size. Trudy Inst. psikhol. AN Gruz. SSR 12:197-212
'60. (MIRA 13:11)

(Space perception)

BAINOV, D. D.

Solution of a trigonometric system connected with the problem of the existence of relative periodic movements of some double physical pendulums. Godishnik mash elekt 12 no. 1:59-62 '62 [publ. '63].